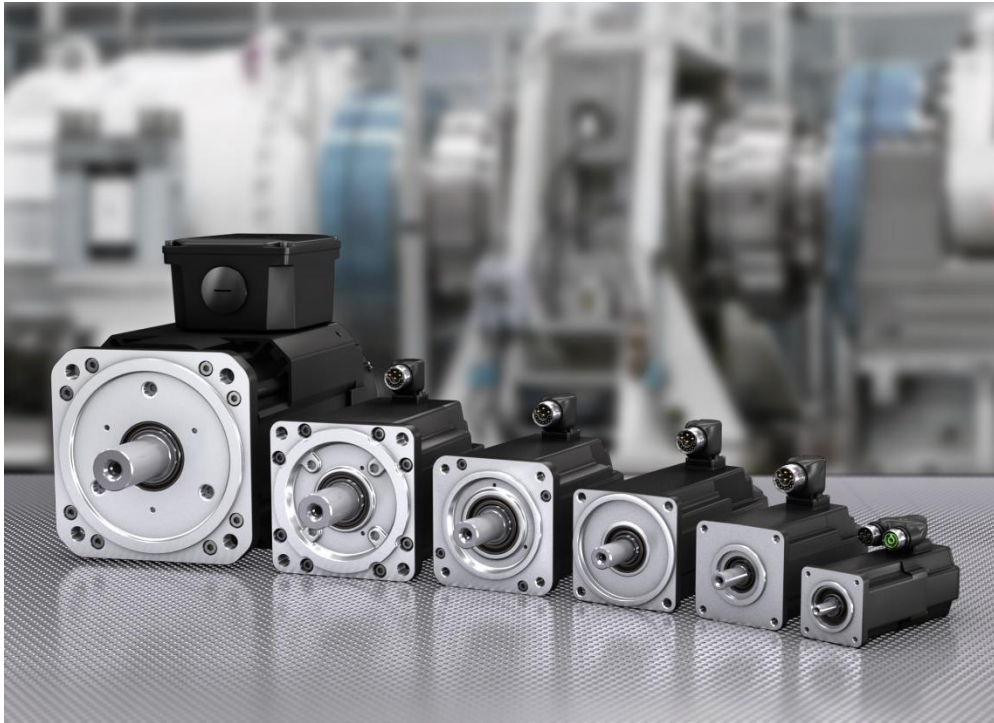


New Synchronous Motors from Rexroth: Compact design for Higher Workpiece Quality

The IndraDyn S series MS2N increases the productivity of machine tools

2018-02-27

For Immediate Use



Greater consistency in movement in less space: The new generation of synchronous servo motors from Rexroth is especially suited for use in machine tools.

The new IndraDyn S series MS2N synchronous servo motors from Rexroth improve the consistency of path velocity and thus the processing quality, thanks to significantly reduced torque ripple. Moreover, in conjunction with IndraDrive control units, completely new applications for higher availability of machine tools in a networked environments are possible with the MS2N motors as a data source.

In the new IndraDyn S series MS2N, intelligence now reaches all the way up to the motor. This is possible because the individual measurements of each individual motor, as well as saturation and temperature data, are stored in the respective motor's memory and are automatically processed by IndraDrive controllers. This information greatly increases the precision of the torque and reduces the tolerance range to a fraction of previously accepted values. Also, for the first time, the servo motor provides data as well. This allows machine tool operators to implement Industry 4.0 applications, such as condition

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monitoring and predictive maintenance economically and without additional components.

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Reduced torque ripple for constant path velocity

Thanks to the new motor construction and an optimized electromagnetic design, this new generation is able to achieve significantly reduced torque ripple. This is especially important for maintaining constant path velocity and thus, increased product quality, as in free form milling. In addition, the developers at Bosch Rexroth have reached up to 30 percent higher torque density. The motors are significantly more compact despite their enhanced performance. Machine manufacturers can thus use smaller motors in existing drive tasks or use more power within a given motor compartment. Up to five times overload capacity guarantees the fastest acceleration and optimum dynamism for all sizes. With different degrees of rotor inertia, machine manufacturers can offer application-oriented design for different masses on the axes.

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Thanks to high-quality materials, the MS2N motors achieve significantly greater continuous power, even at higher speeds. As such, the new development is perfectly suited for use in driven tool axes in lathes. Also, thanks to their optimized winding technology, the motors help to reduce internal losses. Thus, the new generation accomplishes dramatic increases in energy efficiency.

Finely scalable from 4 Nm to 360 Nm

Rexroth offers the IndraDyn S series MS2N in six sizes with up to five lengths each. The series covers the power range from 4 Nm to 360 Nm maximum torque and 0.8 Nm to 148 Nm continuous torque at standstill. Machine manufacturers can choose from three encoder systems, all finely graded in both precision and resolution. For the electrical connection of power and encoder signal, Rexroth provides an innovative single cable connection, as well as conventional two-cable solutions with highly flexible cable options and practical quick-lock.

Economical, precise, safe, and energy efficient: drive and control technology from Bosch Rexroth moves machines and systems of any size. The company bundles global application experience in the market segments of Mobile Applications, Machinery Applications and Engineering, and Factory Automation to develop innovative components as well as tailored system solutions and services. Bosch Rexroth offers its customers hydraulics, electric drives and controls, gear

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technology, and linear motion and assembly technology all from one source. With locations in over 80 countries, more than 29,500 associates generated sales revenue of approximately 5 billion euros in 2016.

To learn more, please visit www.boschrexroth.ca

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The Bosch Group is a leading global supplier of technology and services. It employs roughly 400,500 associates worldwide (as of December 31, 2017). According to preliminary figures, the company generated sales of 78 billion euros in 2017. Its operations are divided into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. As a leading IoT company, Bosch offers innovative solutions for smart homes, smart cities, connected mobility, and connected industry. It uses its expertise in sensor technology, software, and services, as well as its own IoT cloud, to offer its customers connected, cross-domain solutions from a single source. The Bosch Group's strategic objective is to create solutions for a connected life, and to improve quality of life worldwide with products and services that are innovative and spark enthusiasm. In short, Bosch creates technology that is "Invented for life." The Bosch Group comprises Robert Bosch GmbH and its roughly 440 subsidiaries and regional companies in some 60 countries. Including sales and service partners, Bosch's global manufacturing, engineering, and sales network covers nearly every country in the world. The basis for the company's future growth is its innovative strength. At 125 locations across the globe, Bosch employs 62,500 associates in research and development.

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